

<110> Rosen et al.

<120> 47 Human Secreted Proteins

<130> PZ035P1

<140> Unassigned

<141> 2000-06-09

<150> PCT/US99/29950

<151> 1999-12-16

<150> 60/113,006

<151> 1998-12-18

<150> 60/112,809

<151> 1998-12-17

<160> 231

<170> PatentIn Ver. 2.0

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<210> 27

<211> 1381

<212> DNA

<213> Homo sapiens

<400> 27

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 aggtggtgtg ggaggggcctg tggatgtcct gcgtggtgca gagcacgggc cagatgcagt 240
 gcaagggtga gactcactg ctggcgctgc cacaggacct gcaggctgca cgtgccctct 300
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<211> 2527
<212> DNA
<213> Homo sapiens
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<210> 29
 <211> 2081
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

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<210> 30
 <211> 1262
 <212> DNA
 <213> Homo sapiens

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<210> 31
 <211> 1804
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1593)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1701)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1792)
 <223> n equals a,t,g, or c

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<400> 31
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<220>  
<221> SITE  
<222> (1102)  
<223> n equals a,t,g, or c
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<220>
 <221> SITE
 <222> (1105)
 <223> n equals a,t,g, or c

<400> 33
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 ccacatgtta tttaaatacg tacatgttta acataaatac atacataaaa ttcacatgca 300
 tacttaacac ttatgtttaa tatattcaat gtatatacat atgtacacaa tatatgcata 360
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 ggactaaggg caaaaatgaaa ctgtacggcc ctggttcaaa aattaggtgt ggggtgcttc 480
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 aagaaatgtt taaaaggcta catacaagct ttccagggtc tctactatct gktaactaac 660
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<210> 34
 <211> 2235
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (867)
 <223> n equals a,t,g, or c

<400> 34
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ataaacacac	tcacttaaac	attttatgtg	tcaaataaaa	tttgattatg	taaaaaaaaa	1800
aaaaaaaaac	tcgagggggg	gcccggcccc	aattcgccan	atggagatcc	naa	1853

<210> 36

<211> 1465

<212> DNA

<213> Homo sapiens

<400> 36

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<210> 37

<211> 985

<212> DNA

<213> Homo sapiens

<400> 37

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985

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<211> 719
<212> DNA
<213> Homo sapiens
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<210> 39
<211> 1269
<212> DNA
<213> Homo sapiens
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<400> 39							
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<213> Homo sapiens
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<212> DNA

<213> Homo sapiens

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<212> DNA
<213> Homo sapiens
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<211> 1517

<212> DNA

<213> Homo sapiens

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<211> 3080

<212> DNA

<213> Homo sapiens

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 <212> DNA
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2204

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 <211> 1998
 <212> DNA
 <213> Homo sapiens

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<210> 48
 <211> 2069
 <212> DNA
 <213> Homo sapiens

<400> 48
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<211> 924

<212> DNA

<213> Homo sapiens

<400> 49

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<210> 50

<211> 2520

<212> DNA

<213> Homo sapiens

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<210> 51
<211> 3337
<212> DNA
<213> Homo sapiens
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<211> 1947

<212> DNA

<213> Homo sapiens

<400> 52

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<210> 53
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (678)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (681)
<223> n equals a,t,g, or c

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cttactttct ctgttggact gcagacaact tgaaagcagg aactttggca gtgtttcccc 480
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<210> 54
<211> 1182
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1119)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1128)
<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<220>
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<222> (1147)
<223> n equals a,t,g, or c

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<210> 55
<211> 1866
<212> DNA
<213> Homo sapiens

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00605296.00001

<400> 55
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 caagaaagat tttgtttacc tgtgtttaac tcaatatatg ccaaaagtat tgaatcacat 480
 atgaaaagtc ctccctaccc ttctcccttt ttccagtttca agaaatactg tacctactac 540
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 agctttcatc tcaagaacag ctttgcactg tacctaagta aaagcttaac ttatatataa 1860
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<210> 56
 <211> 1028
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1022)
 <223> n equals a,t,g, or c

<220>
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 <222> (1026)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1027)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1028)
 <223> n equals a,t,g, or c

<400> 56

096529-0001

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gggaacccaaa gctggagctc caccgcggtg gcggccgctc tagaactagt ggatcccccg      60
ggctgcagga attcggcacg aggtggactg gattagctgc ggaggccctg gaagctgcct      120
gtccttctcc ctgtgcttaa ccagaggtgc ccatgggttg gacaatgagg ctggtcacag      180
cagcactgtt actgggtctc atgatgggtg tccctggaga cgaggatgag aacagcccgt      240
gtgcccataa ggccctcttg gacgaggaca cctctctttg ccaggccctt gaagttttct      300
acccagagtt ggggaacatt ggctgcaagg ttgttcctga ttgtaacaac tacagacaga      360
agatcacctc ctggatggag ccgatagtca agttcccggg ggccgtggac ggcgcaacct      420
atatcctggt gatggtggat ccgatgccc ctgacagagc agaaccaga cagagattct      480
ggagacattg gctggttaaca gatataaagg gcgccgacct gaagraaggg aagattcagg      540
gccaggagtt atcagcctac caggctccct cccaccgggc acacagtggc ttccatcgct      600
accagttctt tgtctatctt caggaaggaa aagtcattct tctccttccc aaggaaaaca      660
aaactcgagg ctcttggaat atggacagat ttctgaaccg tttccacctg ggcgaacctg      720
aagcaagcac ccagttcatg acccagaact accaggactc accaaccctc caggctccca      780
gagaaagggc cagcagagccc aagcacaata accaggcgga gatagctgcc tgctagatag      840
ccggtcttgc catccgggca tgtggccaca ctgcyacca ccgacgatgt gggataggaa      900
ccccctctgg atacagaacc ccttcttttc caaataaaaa aaaaatcatc caggaaaaaa      960
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     1020
anaaaannnn

```

```

<210> 57
<211> 1854
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (57)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1844)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1853)
<223> n equals a,t,g, or c

```

```

<400> 57
gctgaggact gcagccccac tcccgccctt ccccatcgt gctgcatgat ctccacncac      60
gcacgtccag ggacagactg gaatgtatgt catctggggt ctggtgggag ggctcccacg      120
aggccatcct cctcttcttg gmcctccttg gcctgaccca ttctgtgggg aaaccgggtg      180
cccatggagc ctcaaaaatg ccaccggctt ggttggcatg gcttggggca ggaggcagag      240
gcaggagacc aagatggcag gtggaggcca ggcttaccac aacggaagag acctccgct      300
ggggccgggc aggcctggct cagctgccac aggcataatg tggagagggg ggtacctgc      360
ccaccttggg gtggtggcac cagagctctt gtctattcag acgctggtat gggggctcgg      420
acctctcact ggggacaggg ccagtgttgg agaattctga ttcctttttt gttgtctttt      480
acttttgttt ttaacctggg ggttcgggga gaggccctgc ttgggaacat ctacagagct      540
ttcctacatc ttccgtggtt cccagcacag cccaagatta tttggcagcc aagtggatgg      600
aactaacttt cctggactgt gtttcgcatt cggcgttatc tggaaagtgg actgaacgga      660
atcaagctct gagcagaggc ctgaagcgga agcaccacat cgtccctgcc catctcactc      720
tctcccttga tgatgcccct agagctgagg ctggagaaga caccagggtt gactttgacy      780
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gaaggacaaa ctgtccaggt cggaggggatc acgagacaca gaacctggag ggggtgtgcac      960
gctggcargt ggcctctcgg gcaattgcct caccctgagg acatcagcag tcagcctgct     1020
cagagcgggg gtgctggagc gcgtgcagac acagctcttc cggagcagcc ttcaccttct     1080
ctctgggatc agtgtccggc tggccgacgt ggcatttgcg gaccgaatgc tcatagaggt     1140
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058539-00201

```

cttttggcca caggtgtggg tgtcctgttg gaggagggt tgtttggaga agggaggctg 1260
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ttctacgtct atttaaggct aggagccgaa tgtgccccat tgtcagtggg tccacgtttc 1440
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```

```

<210> 58
<211> 1349
<212> DNA
<213> Homo sapiens

```

```

<400> 58
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attcctcaaa cctaaaaatca acagctttta tgcctttgaa gtgaaggatg caaaaggaa 180
aactgtttct ctggaaaagt ataaaggcaa agtttcaacta gttgtaaacg tggccagtga 240
ctgccaaactc acagacagaa attacttagg gctgaaggaa ctgcacaaag agtttggacc 300
atcccacttc agcgtgttgg cttttccctg caatcagttt ggagaatcgg agccccgcc 360
aagcaaggaa gtagaatctt ttgcaagaaa aaactacgga gtaactttcc ccatcttcca 420
caagattaag attctaggat ctgaaggaga acctgcattt agatttcttg ttgattcttc 480
aaagaaggaa ccaaggtgga atttttggaa gtatcttgtc aacctgagg gtcaagttgt 540
gaagtctctg aggccagagg agccattga agtcatcagg cctgacatag cagctctggt 600
tagacaagtg atcataaaaa agaaagagga tctatgagaa tgccattgcg tttctaatag 660
aacagagaaa tgtctccatg agggtttggg ctcatthtaa acattttttt tttggagaca 720
gtgtctcact ctgtcaccca ggctggagtg cagtgtgctg ttctcagctc attgcaacct 780
ctgccttttt aaacatgcta ttaaatgtgg caatgaagga ttttttttta atgttatctt 840
gctattaagt ggtaatgaat gttcccagga tgaggatgtt acccaaagca aaaatcaaga 900
gtagccaaag aatcaacatg aaatatatta actacttctc ctgaccatac taaagaattc 960
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tacaggattt tgttttttct ttttaagtac aggttccatg tgttttacta taactgtcac 1260
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1349

```

```

<210> 59
<211> 1072
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (374)
<223> n equals a,t,g, or c

```

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<400> 59
ggcasagccc ttatctcctt cgcagtgcag ctccctcaac ctgcgccatgg cctctgccgg 60
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tgccctgccc atgtggaagg tgacygtttt catcggaac agcatcgtgg tggcccagggt 180
gggtgtgggag ggcctgtgga tgtctgcgtt ggtgcagagc accggccaga tgcagtgcaa 240
gggtgtacgac tcaactgtgg cgctgccaca ggaacctgcag gctgcacgtg ccctctgtgt 300
catcgccctc cttgtggccc tgttcggctt gctggtctac cttgctgggg ccaagtgtac 360

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098999.0001

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<210> 60
<211> 2508
<212> DNA
<213> Homo sapiens
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<400>
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tcatctctccc ctcgaaacccc accaaggcccc gcccgccccc cgtagtcacag gggaggcccc 180
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2508

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<210> 61
<211> 952
<212> DNA
<213> Homo sapiens
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<400> 61	gaattcggca cgaggccctg gaagctgcct gtccttctcc ctgtgcttaa ccagagggtgc	60
ccatgggttg gacaatgagg ctggtcacag cagcactgtt actgggtctc atgatgggtgg	120	
tactggaga cgaggatgag aacagcccggt gtgcccatga ggccctcttg gacgaggaca	180	
ccctcttttg ccagggcctt gaagttttct acccagagtt ggggaacatt ggctgcaagg	240	
ttgttcctga ttgtaacaac tacagacaga agatcacctc ctggatggaa gccgatagtc	300	
aagtctcccg gggccgtgga cggcgcaacc tataatctct gtgatgggtg atccagatgc	360	
ccctagcaga gcagaaccca gacagagatt ctggaacat tggctggtaa cagatatcaa	420	
gggcgcgac ctgaagaaag ggaagattca gggccaggag ttatcagcct accaggctcc	480	
ctccccaccg gcacacagtg gcttccatcg ctaccagttc tttgtctatc ttcaggaagg	540	
aaaagtcac tctctccttc ccaaggaaaa caaaactcga ggctcttgga aaatggacag	600	
atttctgaac cgtttccacc tgggcgaacc tgaagcaagc acccagttca tgaccagaa	660	
ctaccaggac tcaccaaccc tccaggctcc cagagaaagg gccagcgagc ccaagcacia	720	
aaaccaggcg gagatagctg cctgcttagat agccggtctt gccatccggg catgtggcca	780	
cactgcccc aaccagcatg gtgggtatgg aacccctctt ggatacagaa ccccttcttt	840	
tccaaataaa aaaaaaatca tccaccctaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	900	
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa	952	

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<210> 62
<211> 206
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

```

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<400> 62
Met Ala Ser His Gly Leu Cys Pro Cys Leu Leu Met Gly Thr Gly Trp
  1              5              10              15

Gly Leu Trp Thr Leu Leu Pro Asp Leu Glu Val Met Ala Gly Lys Gly
      20              25              30

Arg Met Pro Phe Ala Gly Ile Ser Val Thr Ser Gly Phe Leu Arg Ser
      35              40              45

Leu Lys Arg Ala Pro Leu Pro His Thr Gly Ser Pro Asp Pro Arg Pro
      50              55              60

Ser Gly Ile Trp Ser Gly Val Arg Thr Thr Ser Glu Glu Ala Gly Ala
      65              70              75              80

Thr Ser Thr Gln Ile Ser Thr Ala Ala Pro Arg Phe His Ser Arg Arg
      85              90              95

Lys Gly Pro Lys Arg Asn Leu Ala Pro Gln Leu Arg Val Leu Val His
      100              105              110

Arg Thr Val Pro Pro Gly Gln Leu Val Tyr Ala Pro Gln Thr Val Asp
      115              120              125

```

Ser Leu Arg Gly Thr Leu Leu Arg Pro Pro Ala Trp Leu Leu Xaa Gln
130 135 140

Val Pro Cys Phe Tyr Ser Gly Gln Pro Leu Leu Val Ser Ala Ser Val
145 150 155 160

Leu Cys Arg Asp Leu Met Gln Phe Leu Phe Leu Leu Lys Ser Tyr Leu
165 170 175

Leu Pro Phe Leu Glu Val Cys Arg Ile Gly Trp Glu Gln Ile Gln Arg
180 185 190

Ile Leu Gly Ala Gly Leu Trp Arg Gln Lys Glu Gly Asn Gly
195 200 205

<210> 63

<211> 108

<212> PRT

<213> Homo sapiens

<400> 63

Met Thr Trp Trp Tyr Arg Trp Leu Cys Arg Leu Ser Gly Val Leu Gly
1 5 10 15

Ala Val Ser Cys Ala Ile Ser Gly Leu Phe Asn Cys Ile Thr Ile His
20 25 30

Pro Leu Asn Ile Ala Ala Gly Val Trp Met Met Met Ala Val Val Pro
35 40 45

Ile Val Ile Ser Leu Thr Leu Thr Thr Leu Leu Gly Asn Ala Ile Ala
50 55 60

Phe Ala Thr Gly Val Leu Tyr Gly Leu Ser Ala Leu Gly Lys Lys Gly
65 70 75 80

Asp Ala Ile Ser Tyr Ala Arg Ile Gln Gln Gln Arg Gln Gln Ala Asp
85 90 95

Glu Glu Lys Leu Ala Glu Thr Leu Glu Gly Glu Leu
100 105

<210> 64

<211> 286

<212> PRT

<213> Homo sapiens

<400> 64

Met Ala Arg Phe Gly Leu Pro Ala Leu Leu Cys Thr Leu Ala Val Leu
1 5 10 15

Ser Ala Ala Leu Leu Ala Ala Glu Leu Lys Ser Lys Ser Cys Ser Glu
20 25 30

Val Arg Arg Leu Tyr Val Ser Lys Gly Phe Asn Lys Asn Asp Ala Pro
35 40 45

Leu His Glu Ile Asn Gly Asp His Leu Lys Ile Cys Pro Gln Gly Ser

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50 55 60
 Thr Cys Cys Ser Gln Glu Met Glu Glu Lys Tyr Ser Leu Gln Ser Lys
 65 70 75 80
 Asp Asp Phe Lys Ser Val Val Ser Glu Gln Cys Asn His Leu Gln Ala
 85 90 95
 Val Phe Ala Ser Arg Tyr Lys Lys Ser Asp Glu Phe Phe Lys Glu Leu
 100 105 110
 Leu Glu Asn Ala Glu Lys Ser Leu Asn Asp Met Phe Val Lys Thr Tyr
 115 120 125
 Gly His Leu Tyr Met Gln Asn Phe Glu Leu Phe Lys Asp Leu Phe Val
 130 135 140
 Glu Leu Lys Arg Tyr Tyr Val Val Gly Asn Val Asn Leu Glu Glu Met
 145 150 155 160
 Leu Asn Asp Phe Trp Ala Arg Leu Leu Glu Arg Met Phe Arg Leu Val
 165 170 175
 Asn Ser Gln Tyr His Phe Thr Asp Glu Tyr Leu Glu Cys Val Ser Lys
 180 185 190
 Tyr Thr Glu Gln Leu Lys Pro Phe Gly Asp Val Pro Arg Lys Leu Lys
 195 200 205
 Leu Gln Val Thr Arg Ala Phe Val Ala Ala Arg Thr Phe Ala Gln Gly
 210 215 220
 Leu Ala Val Ala Gly Asp Val Arg Glu Gln Gly Leu Arg Gly Lys Pro
 225 230 235 240
 His Ser Pro Val Tyr Pro Cys Pro Val Glu Asp Asp Leu Leu Leu Pro
 245 250 255
 Leu Pro Gly Ser Arg Asp Cys Glu Ala Met Leu Gln Leu Leu Leu Lys
 260 265 270
 His His Glu Arg Leu Phe Gly Gln Pro Arg Gly Ser Arg Phe
 275 280 285

<210> 65

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 65

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Leu Gly Gly Arg Thr Tyr Arg Thr Leu Leu Gln Leu Thr Arg Met Tyr

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<210> 67
<211> 149
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 67
Met Ala Ala Trp Val Phe Pro Leu Leu Ser Val Ile His Thr Xaa Leu
  1              5              10              15

Pro Gln Ala Ser Pro Glu Ile Trp Val Thr Gln Ser Glu Gly Gly Asp
      20              25              30

Gln Gly Val Ala Cys Glu Xaa Val Gly Gly Val Leu Ser Thr Leu Asp
      35              40              45

Arg Ile Glu Leu Cys Phe Leu Ser Asp Arg Ala Ser Ser Gly Cys Xaa
      50              55              60

Asp Lys Xaa Pro Gln Thr Gly Val Leu Phe Leu Gly Ala Gly Ile Cys
      65              70              75              80

His Glu Gly Val Gly Arg Ala Gly Ser Ser Arg Ala Leu Ser Pro Gly
      85              90              95

Pro Ala Xaa Ala Val Phe Pro Ser Phe Pro Cys Ala Phe Pro Gly Pro
      100              105              110

Ser Cys Val Cys Leu Cys Pro Arg Leu Ser Trp Xaa Xaa Tyr Arg Ser
      115              120              125

Gln Gly Pro Trp Ser Tyr Trp Ile Arg Ala Thr Leu Met Ala Ser Cys
      130              135              140

His Cys Ser Tyr Leu
145

```

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<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 68
Met Cys Phe Ala Thr Ala Ala Phe Phe Phe Phe Phe Thr Leu Leu Met
  1                      5                      10                      15

Leu Cys Val Ser Ser Ser Arg Asp Pro Arg Ala Ala Ile Gln Asn Gly
      20                      25                      30

Phe Trp Phe Phe Lys Phe Leu Ile Leu Val Gly Xaa Thr Val Gly Ala
      35                      40                      45

Phe Tyr Ile Pro Asp Gly Ser Phe Thr Asn Ile Trp Phe Tyr Phe Gly
      50                      55                      60

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<210> 69
<211> 111
<212> PRT
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<400> 69'

Leu Ile Asn Leu Gly Sér Thr Gln Cys Ser Leu Asp Ser Val Met Asp
20 25 30

Ile Ser Lys Lys Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro
50 55 60

Gly Cys Gly Ser Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln
85 90 95

Cys Ser Val Val Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr
100 105 110

<211> 183

<212> PRT

<213> Hom

<400> 70

Met Gly Leu Ser Gly Phe His Gln Thr His Phe Pro Ala Ala Val Trp
20 25 30

Ser Gly Pro Glu Asn Thr Lys Pro Pro Asp Pro Arg Pro Thr Pro Thr
35 40 45

His His Pro Ala Ser Ala Ala Leu Ser Gln Asp Ser His Gly Asn Glu
50 55 60

Gly Ile His Leu Leu Pro Asp Thr His Trp Ala Leu Arg Pro Ser Gln
65 70 75 80

Gly Pro His Asn Gly Pro Gln Arg Arg Gly Pro Thr Thr Cys Trp Ile
85 90 95

Phe Pro Gly Lys Gly Val Arg Gly Trp Arg Gly Arg Ala Val Arg Leu
100 105 110

Phe Pro Ala Pro Ser Pro Ile Cys Thr Leu Val Ala Arg Val Ser Gln
115 120 125

Arg Gly His Pro Cys Pro Arg Thr Leu Ser Pro Ser Ser Ala Pro Cys
130 135 140

Phe Leu Ile Leu Lys Leu Gln Gly Gly Trp Glu Asp Ser Asn Gly Asn
145 150 155 160

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<400> 71
Met Ile Val Gly Ser Pro Arg Ala Leu Thr Gln Pro Leu Gly Leu Leu
  1                      5                      10                      15

Arg Leu Leu Gln Leu Val Ser Thr Cys Val Ala Phe Ser Leu Val Ala
                20                      25                      30

Ser Val Gly Ala Trp Thr Gly Ser Met Gly Asn Trp Ser Met Phe Thr
      35                      40                      45

Trp Cys Phe Cys Phe Ser Val Thr Leu Ile Ile Leu Ile Val Glu Leu
      50                      55                      60

Cys Gly Leu Gln Ala Arg Phe Pro Leu Ser Trp Arg Asn Phe Pro Ile
      65                      70                      75                      80

Thr Phe Ala Cys Tyr Ala Ala Leu Phe Cys Leu Ser Ala Ser Ile Ile
                85                      90                      95

Tyr Pro Thr Thr Tyr Val Gln Phe Leu Ser His Gly Arg Ser Arg Asp
      100                      105                      110

His Ala Ile Ala Ala Thr Phe Phe Ser Cys Ile Ala Cys Val Ala Tyr
      115                      120                      125

Ala Thr Glu Val Ala Trp Thr Arg Ala Arg Pro Gly Glu Ile Thr Gly
      130                      135                      140

Tyr Met Ala Thr Val Pro Gly Leu Leu Lys Val Leu Glu Thr Phe Val
      145                      150                      155                      160

Ala Cys Ile Ile Phe Ala Phe Ile Ser Asp Pro Asn Leu Tyr Gln His
                165                      170                      175

Gln Pro Ala Leu Glu Trp Cys Val Ala Val Tyr Ala Ile Cys Phe Ile
                180                      185                      190

Leu Ala Ala Ile Ala Ile Leu Leu Asn Leu Gly Glu Cys Thr Asn Val
      195                      200                      205

Leu Pro Ile Pro Phe Pro Ser Phe Leu Ser Gly Leu Ala Leu Leu Ser
      210                      215                      220

Val Leu Leu Tyr Ala Thr Ala Leu Val Leu Trp Pro Leu Tyr Gln Phe
      225                      230                      235                      240

Asp Glu Lys Tyr Gly Gly Ser Leu Gly Ala Arg Glu Met
                245                      250

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<400> 73
Met Val Val Leu Phe Arg Trp Val Pro Val Thr Asp Ala Tyr Trp Gln
  1             5             10             15

Ile Leu Phe Ser Val Leu Lys Val Thr Arg Asn Leu Lys Glu Leu Asp
      20             25             30

Leu Ser Gly Asn Ser Leu Ser His Ser Ala Val Lys Ser Leu Cys Lys
      35             40             45

Thr Leu Arg Arg Pro Arg Cys Leu Leu Glu Thr Leu Arg Leu Ala Gly
      50             55             60

Cys Gly Leu Thr Ala Glu Asp Cys Lys Asp Leu Ala Phe Gly Leu Arg
  65             70             75             80

Ala Asn Gln Thr Leu Thr Glu Leu Asp Leu Ser Phe Asn Val Leu Thr
      85             90             95

Asp Ala Gly Ala Lys His Leu Cys Gln Arg Leu Arg Gln Pro Ser Cys
      100            105            110

Lys Leu Gln Arg Leu Gln Leu Val Ser Cys Gly Leu Thr Ser Asp Cys
      115            120            125

Cys Gln Asp Leu Ala Ser Val Leu Ser Ala Ser Pro Ser Leu Lys Glu
      130            135            140

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Leu	Asp	Leu	Gln	Gln	Asn	Asn	Leu	Asp	Asp	Val	Gly	Val	Arg	Leu	Leu
145					150					155					160

<400> 78
Met Gln Ile Leu Gly Val Val Leu Thr Leu Leu Gly Trp Val Asn Gly
1 5 10 15

Leu Val Ser Cys Ala Leu Pro Met Trp Lys Val Thr Ala Phe Ile Gly
20 25 30

Asn Ser Ile Val Val Ala Gln Val Val Trp Glu Gly Leu Trp Met Ser
35 40 45

Cys Val Val Gln Ser Thr Gly Gln Met Gln Cys Lys Val Tyr Asp Ser
50 55 60

Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala Ala Arg Ala Leu Cys Val
65 70 75 80

Ile Ala Leu Leu Val Ala Leu Phe Gly Leu Leu Val Tyr Leu Ala Gly
85 90 95

Ala Lys Cys Thr Thr Cys Phe Tyr Ile Arg Ile Pro Arg Pro Ala Trp
100 105 110

Cys Ser Pro Leu Gly Leu Ser Leu Ser Ser Gln Gly Ser
115 120 125

<210> 79

<211> 218

<212> PRT

<213> Homo sapiens

<400> 79

Met Glu Ser Arg Met Trp Pro Ala Leu Leu Leu Ser His Leu Leu Pro
1 5 10 15

Leu Trp Pro Leu Leu Leu Leu Pro Leu Pro Pro Pro Ala Gln Gly Ser
20 25 30

Ser Ser Pro Pro Arg Thr Pro Pro Pro Pro Ala Arg Pro Pro Cys Ala
35 40 45

Arg Gly Gly Pro Ser Ala Pro Arg His Val Cys Val Trp Glu Arg Ala
50 55 60

Pro Pro Pro Ser Arg Ser Pro Arg Val Pro Arg Ser Arg Arg Gln Val
65 70 75 80

Leu Pro Gly Thr Ala Pro Pro Ala Thr Pro Ser Gly Phe Glu Glu Gly
85 90 95

Pro Pro Ser Ser Gln Tyr Pro Trp Ala Ile Val Trp Gly Pro Thr Val
100 105 110

Ser Arg Glu Asp Gly Gly Asp Pro Asn Ser Ala Asn Pro Gly Phe Leu
115 120 125

Asp Tyr Gly Phe Ala Ala Pro His Gly Leu Ala Thr Pro His Pro Asn
130 135 140

Ser Asp Ser Met Arg Gly Asp Gly Met Gly Leu Ser Leu Glu Arg His
145 150 155 160

Leu Pro Pro Cys Gly His Ser Cys Ser Gly Ala Val Gly Lys Val Trp
165 170 175

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<400> 80
Met Ala Ile Ser Ile Pro Asn Arg Ile Phe Pro Ile Thr Ala Leu Thr
  1             5             10             15

Leu Leu Ala Leu Val Tyr Ser Leu Val Leu Leu Leu Pro Phe Tyr Asn
      20             25             30

Cys Thr Glu Xaa Thr Lys Tyr Arg Arg Phe Pro Asp Trp Leu Asp His
      35             40             45

Trp Met Leu Cys Arg Lys Gln Leu Gly Leu Val Ala Leu Gly Phe Ala
  50             55             60

Phe Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val
  65             70             75             80

```

Leu Ile Ser Val Pro Tyr Asn Asn Thr
115 120

<210> 82
 <211> 154
 <212> PRT
 <213> Homo sapiens

<400> 82

Met Asn Pro Gln Thr Val Leu Leu Leu Arg Val Ile Ala Ala Phe Cys
 1 5 10 15
 Phe Leu Gly Ile Leu Cys Ser Leu Ser Ala Phe Leu Leu Asp Val Phe
 20 25 30
 Gly Pro Lys His Pro Ala Leu Lys Ile Thr Arg Arg Tyr Ala Phe Ala
 35 40 45
 His Ile Leu Thr Val Leu Gln Cys Ala Thr Val Ile Gly Phe Ser Tyr
 50 55 60
 Trp Ala Ser Glu Leu Ile Leu Ala Gln Gln Gln Gln His Lys Lys Tyr
 65 70 75 80
 His Gly Ser Gln Val Tyr Val Thr Phe Ala Val Ser Phe Tyr Leu Val
 85 90 95
 Ala Gly Ala Gly Gly Ala Ser Ile Leu Ala Thr Ala Ala Asn Leu Leu
 100 105 110
 Arg His Tyr Pro Thr Glu Glu Glu Glu Gln Ala Leu Glu Leu Leu Ser
 115 120 125
 Glu Met Glu Glu Asn Glu Pro Tyr Pro Ala Glu Tyr Glu Val Ile Asn
 130 135 140
 Gln Phe Gln Pro Pro Pro Ala Tyr Thr Pro
 145 150

<210> 83
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 83

Met Met Asn Phe Gln Pro Pro Ser Lys Ala Trp Arg Ala Ser Gln Met
 1 5 10 15
 Met Thr Phe Phe Ile Phe Leu Leu Phe Phe Pro Ser Phe Thr Gly Val
 20 25 30
 Leu Cys Thr Leu Ala Ile Thr Ile Trp Arg Leu Lys Pro Ser Ala Asp
 35 40 45
 Cys Gly Pro Phe Arg Gly Leu Pro Leu Phe Ile His Ser Ile Tyr Ser
 50 55 60
 Trp Ile Asp Thr Leu Ser Thr Arg Pro Gly Tyr Leu Trp Val Val Trp
 65 70 75 80
 Ile Tyr Arg Asn Leu Ile Gly Ser Val His Phe Phe Phe Ile Leu Thr

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<210> 84
<211> 72
<212> PRT
<213> Homo sapiens

<400> 84
Met His Ile Tyr Met Trp Val Cys Gly Met Cys Ala Cys Val Cys Met
 1             5             10             15
Ala Ser Tyr Ile Ile Cys Gly Thr Lys Gly Lys Met Lys Leu Tyr Gly
      20             25             30
Pro Arg Ser Lys Ile Arg Cys Gly Val Leu Leu Ser Thr Val Leu Cys
      35             40             45
Asn Cys Thr Gly Cys Met Ser Met Lys Pro Ser Cys Val Cys Ala His
      50             55             60
Met Cys Met Asn Met Tyr Phe Ile
 65             70

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<210> 85
<211> 42
<212> PRT
<213> Homo sapiens

<400> 85
Met Gly Leu Pro Arg Gly Ser Phe Phe Trp Leu Leu Leu Leu Thr
 1             5             10             15
Ala Ala Cys Ser Gly Leu Leu Phe Ala Leu Tyr Phe Ser Ala Val Gln
          20             25             30
Arg Tyr Pro Gly Pro Ala Ala Gly Ala Arg
 35             40

```

<210> 86
<211> 74

Ala Leu Cys Thr Trp Ala Leu Arg Arg Ser Gln Pro Gly Trp Ser Arg

```

<210> 89
<211> 121
<212> PRT
<213> Homo sapiens

<400> 89
Met Thr Cys Phe Pro Thr Arg Leu Gly Leu Ser Cys Pro Lys Pro Ala
  1                      5                      10                      15
Phe Leu Leu Val Pro Leu Ala Leu Ala Gln Cys Val Val Pro Ala Gly
      20                      25                      30
Phe Leu Gly Lys Cys Cys Leu Leu Gly Arg Leu Met Cys Ala Glu Cys

```



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<210> 90
<211> 87
<212> PRT
<213> Homo sapiens

<400> 90
Met Pro Thr Arg Gln Leu His Phe Lys Gln Leu Gln Leu Gln Gly Leu
  1              5              10              15

Leu Ile Val Ile Ala Val Thr Asp Asn Cys Leu Ser Phe Ser Val Lys
      20              25              30

Gly Asn Leu Gly Thr Cys Pro Val Arg Ile Leu Val Ala Ser Phe Cys
      35              40              45

Val His Val Cys Val His Val Arg Val Tyr Phe Ile Gln Ile Ser Leu
      50              55              60

Cys Leu Lys Ser Gly Arg Lys Tyr Phe Lys Phe Leu Leu Leu Asn Cys
      65              70              75              80

Ala Asn Val Glu Ile Ser Ser
      85

```

```

<210> 91
<211> 82
<212> PRT
<213> Homo sapiens

<400> 91
Met Gly Gln Met Gln Leu Cys Trp Gly His Trp Glu Thr Phe Leu Pro
  1                      5                      10                      15
Leu Leu Arg Leu Leu Val Ala Ile Val Leu Cys Lys Val Ser Ile Met
      20                      25                      30
Lys Glu Val Ile Ser Phe Gly Arg Leu Leu Glu Thr Met Leu Ile Pro
      35                      40                      45
Trp Pro Cys Val Thr Leu Met Val Met Glu Arg Lys Ser Phe Leu Leu
      50                      55                      60

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Gln Lys

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<210> 92
<211> 508
<212> PRT
<213> Homo sapiens
```

<400> 92

Met	Ala	Gly	Arg	Thr	Thr	Ala	Ala	Pro	Arg	Gly	Pro	Tyr	Gly	Pro	Trp
1				5					10					15	
Leu	Cys	Leu	Leu	Val	Ala	Leu	Ala	Leu	Asp	Val	Val	Arg	Val	Asp	Cys
		20						25					30		
Gly	Gln	Ala	Pro	Leu	Asp	Pro	Val	Tyr	Leu	Pro	Ala	Ala	Leu	Glu	Leu
		35					40					45			
Leu	Asp	Ala	Pro	Glu	His	Phe	Arg	Val	Gln	Gln	Val	Gly	His	Tyr	Pro
	50					55					60				
Pro	Ala	Asn	Ser	Ser	Leu	Ser	Ser	Arg	Ser	Glu	Thr	Phe	Leu	Leu	Leu
	65				70					75					80
Gln	Pro	Trp	Pro	Arg	Ala	Gln	Pro	Leu	Leu	Arg	Ala	Ser	Tyr	Pro	Pro
				85					90					95	
Phe	Ala	Thr	Gln	Gln	Val	Val	Pro	Pro	Arg	Val	Thr	Glu	Pro	His	Gln
			100					105					110		
Arg	Pro	Val	Pro	Trp	Asp	Val	Arg	Ala	Val	Ser	Val	Glu	Ala	Ala	Val
		115					120					125			
Thr	Pro	Ala	Glu	Pro	Tyr	Ala	Arg	Val	Leu	Phe	His	Leu	Lys	Gly	Gln
		130				135					140				
Asp	Trp	Pro	Pro	Gly	Ser	Gly	Ser	Leu	Pro	Cys	Ala	Arg	Leu	His	Ala
	145				150					155					160
Thr	His	Pro	Ala	Gly	Thr	Ala	His	Gln	Ala	Cys	Arg	Phe	Gln	Pro	Ser
				165					170					175	
Leu	Gly	Ala	Cys	Val	Val	Glu	Leu	Glu	Leu	Pro	Ser	His	Trp	Phe	Ser
			180					185					190		
Gln	Ala	Ser	Thr	Thr	Arg	Ala	Glu	Leu	Ala	Tyr	Thr	Leu	Glu	Pro	Ala
		195					200						205		
Ala	Glu	Gly	Pro	Gly	Gly	Cys	Gly	Ser	Gly	Glu	Glu	Asn	Asp	Pro	Gly
	210					215					220				
Glu	Gln	Ala	Leu	Pro	Val	Gly	Gly	Val	Glu	Leu	Arg	Pro	Ala	Asp	Pro
	225				230					235					240
Pro	Gln	Tyr	Gln	Glu	Val	Pro	Leu	Asp	Glu	Ala	Val	Thr	Leu	Arg	Val
				245					250					255	

Pro Asp Met Pro Val Arg Pro Gly Gln Leu Phe Ser Ala Thr Leu Leu
 260 265 270
 Leu Arg His Asn Phe Thr Ala Ser Leu Leu Thr Leu Arg Ile Lys Val
 275 280 285
 Lys Lys Gly Leu His Val Thr Ala Ala Arg Pro Ala Gln Pro Thr Leu
 290 295 300
 Trp Thr Ala Lys Leu Asp Arg Phe Lys Gly Ser Arg His His Thr Thr
 305 310 315 320
 Leu Ile Thr Cys His Arg Ala Gly Leu Thr Glu Pro Asp Ser Ser Ser
 325 330 335
 Pro Leu Glu Leu Ser Glu Phe Leu Trp Val Asp Phe Val Val Glu Asn
 340 345 350
 Ser Thr Gly Gly Gly Val Ala Val Thr Arg Pro Val Thr Trp Gln Leu
 355 360 365
 Glu Tyr Pro Gly Gln Ala Pro Glu Ala Glu Lys Asp Lys Met Val Trp
 370 375 380
 Glu Ile Leu Val Ser Glu Arg Asp Ile Arg Ala Leu Ile Pro Leu Ala
 385 390 395 400
 Lys Val Ser Glu Ala Cys Asp Ala Val Phe Val Ala Gly Lys Glu Ser
 405 410 415
 Arg Gly Ala Arg Gly Val Arg Val Asp Phe Trp Trp Arg Arg Leu Arg
 420 425 430
 Ala Ser Leu Arg Leu Thr Val Trp Ala Pro Leu Leu Pro Leu Arg Ile
 435 440 445
 Glu Leu Thr Asp Thr Thr Leu Glu Gln Val Arg Gly Trp Arg Val Pro
 450 455 460
 Gly Pro Ala Glu Gly Pro Ala Glu Pro Ala Ala Glu Ala Ser Asp Glu
 465 470 475 480
 Ala Glu Arg Arg Ala Arg Gly Cys His Leu Gln Tyr Gln Arg Ala Gly
 485 490 495
 Val Arg Phe Leu Ala Pro Phe Ala Ala His Pro Leu
 500 505

<210> 93
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 93
 Met Phe Gly Ser Arg Gly Leu Leu Cys Met Cys Val Phe Phe Phe Asn
 1 5 10 15
 Ile Leu Ala Ser Gln Cys Lys Val Ile Ser Ser Gly Gly Met Leu Cys
 20 25 30

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<210> 94
<211> 119
<212> PRT
<213> Homo sapiens
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```
<210> 95
<211> 289
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 95
Met Ser Val Pro Gly Arg Trp Pro Pro Ala Arg Trp Arg Leu Ser Ile
  1              5              10              15

Leu Ala Val Ser Ile Met Pro Cys Val Cys Leu Ala Ser Leu Leu Gln
      20              25              30

Ile Leu Trp Thr Arg Ser Ser Ser Pro Ala His His Leu Ala Ser Pro
  35              40              45

Phe Leu Cys Val Gln Ile Trp Gln Cys Gly Gly Xaa Leu Glu Thr His
  50              55              60

Pro Cys Ser His Val Gly His Val Phe Pro Lys Gln Ala Pro Tyr Ser
  65              70              75              80

```

```

<400> 96
Met Tyr Val Phe Phe Phe Leu Phe Ser Leu Val Leu His Leu Asn Cys
  1              5              10              15

Pro Gln Ser Ala Pro His Gln Pro Cys Val Thr Pro Ser Thr His Lys
      20              25              30

Thr Glu Gln Lys Thr Pro Ser Leu Ser Trp Ser Pro Leu Gly Met Gly
    35              40              45

```

```

<400> 97
Met Asp Thr Phe Cys Val Leu Ile Leu Cys Val Tyr Thr Cys Ala Ala
  1             5             10             15

His Met Ser Ile His Arg Cys Val Cys Ile Leu Cys Val Tyr Phe Val
      20             25             30

His Leu Trp Met Cys Val Cys Thr Ile Glu Ser Ile Ser Arg Arg Glu
      35             40             45

Arg Glu Cys Val Cys Val Cys Val His Val Trp Met Cys Gly Tyr Ser
      50             55             60

Met Ser Val Phe Arg Val Gln Val Tyr Gly Cys Ser Cys Ala Val Cys
  65             70             75             80

Val Cys Ala His Thr His Ser Ala Ser Leu Cys Val Cys Met Cys Ile
      85             90             95

Pro Cys Val Pro Met Tyr Arg Gly Cys Val Tyr Pro Ala Cys Leu Cys
      100             105             110

Met Gly Glu His Met
      115

```

```

<400> 98
Met Ser Thr Val Thr Trp Leu Leu Lys Leu Phe Thr Gln Phe Met Phe
  1                      5                      10                      15
Pro Pro Thr Val Ser Asn Ser His Thr Cys Ala Arg Tyr Tyr Val Phe
      20                      25                      30
Asn Phe Cys Leu Ile Ile Ser Phe Asn Phe Asn Phe His Tyr His Trp
      35                      40                      45

```

```

<400> 99
Met Gln Ala Gln Phe Cys Cys Ser Ala Val Cys Ser Ala Phe Leu His
  1                      5                      10                     15
Ile Leu Ala Ser Pro Ser Gly Ala Lys Met Ala Ala Ala Phe Gln Ala

```

```

<210> 100
<211> 131
<212> PRT
<213> Homo sapiens

<400> 100
Met Ile Thr Lys Pro Ser Lys Arg Gly Ile Ile Tyr Cys Leu Pro Leu
  1             5             10             15
Leu Phe Gln Leu Ser His Leu Ser Leu Ala Asn Leu Phe Leu Thr Ser
      20             25             30
Leu Thr Ser Pro His Leu Thr Glu Phe Phe His Leu Leu Cys Gln Thr
      35             40             45
Thr Gly Tyr Ser Asp Asp Asn Leu Leu Ser Leu Pro Val Ser Ser Gln
      50             55             60
Thr Lys Ala Cys Phe Thr Lys Trp Gly Val Ser Ala Ala Ser Ser Ser
      65             70             75             80
Pro Leu Thr His Ser Cys Ser Ala Arg Gly Ser Gly Arg Val Ser Glu
      85             90             95
His Arg Cys Gly Met Gln Ser Pro Arg Pro His Ala His Pro Ser Phe
      100            105            110
Ser Cys Thr Ser Ala Asn Ser Ser Trp Leu Thr Cys Ala Ser Trp Leu
      115            120            125
Glu Ser Leu
      130

```

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<210> 101
<211> 333
<212> PRT
<213> Homo sapiens
<400> 101
```

Met	Ser	Pro	Trp	Ser	Trp	Phe	Leu	Leu	Gln	Thr	Leu	Cys	Leu	Leu	Pro
1				5					10					15	
Thr	Gly	Ala	Ala	Ser	Arg	Arg	Gly	Ala	Pro	Gly	Thr	Ala	Asn	Cys	Glu
		20						25					30		
Leu	Lys	Pro	Gln	Gln	Ser	Glu	Leu	Asn	Ser	Phe	Leu	Trp	Thr	Ile	Lys
		35					40					45			
Arg	Asp	Pro	Pro	Ser	Tyr	Phe	Phe	Gly	Thr	Ile	His	Val	Pro	Tyr	Thr
	50					55					60				
Arg	Val	Trp	Asp	Phe	Ile	Pro	Asp	Asn	Ser	Lys	Glu	Ala	Phe	Leu	Gln
65					70					75					80
Ser	Ser	Ile	Val	Tyr	Phe	Glu	Leu	Asp	Leu	Thr	Asp	Pro	Tyr	Thr	Ile
				85					90					95	
Ser	Ala	Leu	Thr	Ser	Cys	Gln	Met	Leu	Pro	Gln	Gly	Glu	Asn	Leu	Gln
		100						105					110		
Asp	Val	Leu	Pro	Arg	Asp	Ile	Tyr	Cys	Arg	Leu	Lys	Arg	His	Leu	Glu
	115					120						125			
Tyr	Val	Lys	Leu	Met	Met	Pro	Leu	Trp	Met	Thr	Pro	Asp	Gln	Arg	Gly
	130					135						140			
Lys	Gly	Leu	Tyr	Ala	Asp	Tyr	Leu	Phe	Asn	Ala	Ile	Ala	Gly	Asn	Trp
145					150					155					160
Glu	Arg	Lys	Arg	Pro	Val	Trp	Val	Met	Leu	Met	Val	Asn	Ser	Leu	Thr
				165					170					175	
Glu	Val	Asp	Ile	Lys	Ser	Arg	Gly	Val	Pro	Val	Leu	Asp	Leu	Phe	Leu
		180						185					190		
Ala	Gln	Glu	Ala	Glu	Arg	Leu	Arg	Lys	Gln	Thr	Gly	Ala	Val	Glu	Lys
		195					200					205			
Val	Glu	Glu	Gln	Cys	His	Pro	Leu	Asn	Gly	Leu	Asn	Phe	Ser	Gln	Val
	210					215					220				
Ile	Phe	Ala	Leu	Asn	Gln	Thr	Leu	Leu	Gln	Gln	Glu	Ser	Leu	Arg	Ala
225					230					235					240
Gly	Ser	Leu	Gln	Ile	Pro	Tyr	Thr	Thr	Glu	Asp	Leu	Ile	Lys	His	Tyr
				245					250					255	
Asn	Cys	Gly	Asp	Leu	Ser	Ser	Val	Ile	Leu	Ser	His	Asp	Ser	Ser	Gln
			260					265					270		
Val	Pro	Asn	Phe	Ile	Asn	Ala	Thr	Leu	Pro	Pro	Gln	Glu	Arg	Ile	Thr
		275					280					285			
Ala	Gln	Glu	Ile	Asp	Ser	Tyr	Leu	Arg	Arg	Glu	Leu	Ile	Tyr	Lys	Arg
		290				295					300				
Asn	Glu	Arg	Ile	Gly	Lys	Arg	Val	Lys	Ala	Leu	Leu	Glu	Glu	Phe	Pro
305					310					315					320
Asp	Lys	Gly	Phe	Phe	Phe	Ala	Phe	Gly	Ala	Ala	Ser	Gln			

330

```

<400> 102
Met Thr Trp Thr Lys Cys Pro Leu Pro Leu Gly Pro Ala Phe Phe Thr
  1                      5                      10                      15

Gln Cys Cys Leu Ile Gly Leu Leu Val Pro Leu Leu Gly Trp Gly Asn
      20                      25                      30

Gln Asn Thr Gln Trp Tyr Pro Thr Ser Lys Met Pro Asp Leu Lys Asp
      35                      40                      45

Ser Lys Thr Thr Asp Leu Cys Gln His Val Lys His Met Val
      50                      55                      60

```

```
<400> 103
Met Ser Glu Thr Phe Leu Glu Ser Val Asn Leu Leu Leu Val Ile Pro
  1                      5                        10                15

Val Ala Thr Thr Leu Ile Ser Trp Met Ala Pro Arg Lys Lys Glu Ser
          20                    25                  30

Phe Gln Glu Leu Ser Arg Gln Val Val Pro Cys Gln Met Met Leu Leu
      35                     40                   45

Ser Thr Val Leu Pro Cys Leu Thr His Pro Arg Ile Lys Lys Gly Val
    50                     55                   60

Leu Arg Phe Pro Gly Val Thr Leu Trp Leu Tyr Leu Arg Pro Phe Gln
   65                 70                   75                   80

Phe Tyr Gln Phe Ile Pro Met Asp His Arg Ser Leu Asp Ser Gln Phe
           85                     90                   95

Arg Met Arg
```

```

<400> 104
Met Gly Ala Asn Phe Thr Val Phe Leu Gln Tyr Leu Val Phe Pro Ile
  1                      5                      10                     15

Phe Gly Phe Leu Leu Ile Ile Ser His Pro Ser Gln Pro Leu Phe Ser
      20                      25                      30

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<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 107

Met Gly Trp Thr Met Arg Leu Val Thr Ala Ala Leu Leu Leu Gly Leu
 1 5 10 15

Met Met Val Val Thr Gly Asp Glu Asp Glu Asn Ser Pro Cys Ala His
 20 25 30

Glu Ala Leu Leu Asp Glu Asp Thr Leu Phe Cys Gln Gly Leu Glu Val
 35 40 45

Phe Tyr Pro Glu Leu Gly Asn Ile Gly Cys Lys Val Val Pro Asp Cys
 50 55 60

Asn Asn Tyr Arg Gln Lys Ile Thr Ser Trp Met Glu Pro Ile Val Lys
 65 70 75 80

Phe Pro Gly Ala Val Asp Gly Ala Thr Tyr Ile Leu Val Met Val Asp
 85 90 95

Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg Phe Trp Arg His
 100 105 110

Trp Leu Val Thr Asp Ile Lys Gly Ala Asp Leu Lys Xaa Gly Lys Ile
 115 120 125

Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro Ala His
 130 135 140

Ser Gly Phe His Arg Tyr Gln Phe Phe Val Tyr Leu Gln Glu Gly Lys
 145 150 155 160

Val Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg Gly Ser Trp Lys
 165 170 175

Met Asp Arg Phe Leu Asn Arg Phe His Leu Gly Glu Pro Glu Ala Ser
 180 185 190

Thr Gln Phe Met Thr Gln Asn Tyr Gln Asp Ser Pro Thr Leu Gln Ala
 195 200 205

Pro Arg Glu Arg Ala Ser Glu Pro Lys His Lys Asn Gln Ala Glu Ile
 210 215 220

Ala Ala Cys
 225

<210> 108

<211> 65

<212> PRT

<213> Homo sapiens

<400> 108

Met Gly Ala Arg Thr Pro His Trp Gly Gln Gly Gln Cys Trp Arg Ile
 1 5 10 15

Leu Ile Pro Phe Leu Leu Ser Phe Thr Phe Val Phe Asn Leu Gly Val

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Leu

$\langle 210 \rangle$	111
$\langle 211 \rangle$	276

<211> 86

<212> PRT
<213> Homo sapiens

<400> 112

Met Arg Leu Val Thr Ala Ala Leu Leu Leu Gly Leu Met Met Val Val
1 5 10 15

Thr Gly Asp Glu Asp Glu Asn Ser Pro Cys Ala His Glu Ala Leu Leu
20 25 30

Asp Glu Asp Thr Leu Phe Cys Gln Gly Leu Glu Val Phe Tyr Pro Glu
35 40 45

Leu Gly Asn Ile Gly Cys Lys Val Val Pro Asp Cys Asn Asn Tyr Arg
50 55 60

Gln Lys Ile Thr Ser Trp Met Glu Ala Asp Ser Gln Val Pro Gly Gly
65 70 75 80

Arg Gly Arg Arg Asn Leu
85

<210> 113
<211> 29
<212> PRT
<213> Homo sapiens

<400> 113

Ala Ala Pro Asp Gly Gly Thr Met Ser Ser Ser Gly Gly Ala Pro Gly
1 5 10 15

Ala Ser Ala Ser Ser Ala Pro Pro Ala Gln Glu Glu Gly
20 25

<210> 114
<211> 191
<212> PRT
<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 114

Arg Arg Arg Arg Asn Gln Asp Arg Pro Gln Leu Xaa Lys Lys Phe Cys
1 5 10 15

Glu Ala Ser Trp Arg Phe Leu Phe Tyr Leu Ser Ser Phe Val Gly Gly
20 25 30

Leu Ser Val Leu Tyr His Glu Ser Trp Leu Trp Ala Pro Val Met Cys
35 40 45

Trp Asp Arg Tyr Pro Asn Gln Thr Leu Lys Pro Ser Leu Tyr Trp Trp
50 55 60

Tyr Leu Leu Glu Leu Gly Phe Tyr Leu Ser Leu Leu Ile Arg Leu Pro
65 70 75 80

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Leu Pro Phe Asp Val Lys Arg Lys Asp Phe Lys Glu Gln Val Ile His
35 40 45


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<220>
<221> SITE
<222> (280)
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<400> 120

Arg Glu Val Pro Gly Ser His Pro Phe Pro Ala Pro Ala Leu Glu Thr
20 25 30

Arg Leu Val Leu Ile Ile Leu Cys Ser Val Val Phe Ser Ala Val Tyr
50 55 60

Leu Asp His His Phe Pro Thr Gly Ser Arg Pro Thr Val Pro Gly Pro
85 90 95

Arg Glu Pro Cys Arg Ser Cys Ala Val Val Ser Ser Ser Gly Gln Met
115 120 125

Leu Gly Ser Gly Leu Gly Ala Glu Ile Asp Ser Ala Glu Cys Val Phe
130 135 140

Arg Met Asn Gln Ala Pro Thr Val Gly Phe Glu Ala Asp Val Gly Gln
145 150 155 160

Arg Ser Thr Leu Arg Val Val Ser His Thr Ser Val Pro Leu Leu Leu
165 170 175

Arg Asn Tyr Ser His Tyr Phe Gln Lys Ala Arg Asp Thr Leu Tyr Met
180 185 190

Val Trp Gly Gln Gly Arg His Met Asp Arg Val Leu Gly Gly Arg Thr
195 200 205

Tyr Arg Thr Leu Leu Gln Leu Thr Arg Met Tyr Pro Gly Leu Gln Val
210 215 220

Tyr Thr Phe Thr Glu Arg Met Met Ala Tyr Cys Asp Gln Ile Phe Gln
225 230 235 240

Asp Glu Thr Gly Lys Asn Arg Arg Gln Ser Gly Ser Phe Leu Ser Thr
245 250 255

Gly Trp Phe Thr Met Ile Leu Ala Leu Glu Leu Cys Glu Glu Ile Val
260 265 270

Val Tyr Gly Met Val Ser Asp Xaa Tyr Cys Arg Glu Lys Ser His Pro
275 280 285

Ser Val Pro Tyr His Tyr Phe Glu Lys Gly Arg Leu Asp Glu Cys Gln
290 295 300

Met Tyr Leu Ala His Glu Gln Ala Pro Arg Ser Ala His Arg Phe Ile

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<210> 121
<211> 966
<212> DNA
<213> Homo sapiens
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<210> 122
<211> 185
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (161)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 122
Thr Arg Asn Lys Ile Trp Ser Ser Thr Arg Gly Gly Gly Arg Ser Arg
  1             5             10             15

Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Arg Ser His Leu
      20             25             30

Ala Ala Val His Met Ala Ala Trp Val Phe Pro Leu Leu Ser Val Ile
  35             40             45

His Thr Xaa Leu Pro Gln Ala Ser Pro Glu Ile Trp Val Thr Gln Ser
  50             55             60

Glu Gly Gly Asp Gln Gly Val Ala Cys Glu Xaa Val Gly Gly Val Leu
  65             70             75             80

Ser Thr Leu Asp Arg Ile Glu Leu Cys Phe Leu Ser Asp Arg Ala Ser
      85             90             95

Ser Gly Cys Xaa Asp Lys Xaa Pro Gln Thr Gly Val Leu Phe Leu Gly
      100            105            110

Ala Gly Ile Cys His Glu Gly Val Gly Arg Ala Gly Ser Ser Arg Ala
  115            120            125

Leu Ser Pro Gly Pro Ala Xaa Ala Val Phe Pro Ser Phe Pro Cys Ala
  130            135            140

Phe Pro Gly Pro Ser Cys Val Cys Leu Cys Pro Arg Leu Ser Trp Xaa
  145            150            155            160

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Xaa Tyr Arg Ser Gln Gly Pro Trp Ser Tyr Trp Ile Arg Ala Thr Leu
 165 170 175

Met Ala Ser Cys His Cys Ser Tyr Leu
 180 185

<210> 123
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 123
 Phe Leu Gly Val Leu Val Ser Ile Ile Met Leu Ser Pro Gly Val Glu
 1 5 10 15

Ser Gln Leu Tyr Lys Leu Pro Trp Val Cys Glu Glu Gly Ala Gly Ile
 20 25 30

Pro Thr Val Leu Gln Gly His Ile Asp Cys Gly Ser Leu Leu Gly Tyr
 35 40 45

Arg Ala Val Tyr Arg
 50

<210> 124
 <211> 58
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 124
 Pro Gly Ala Gly Arg Pro Lys Pro Gly Ala Ala Ala Met Gly Ala Cys
 1 5 10 15

Leu Gly Ala Cys Ser Leu Leu Ser Cys Ala Ser Cys Leu Cys Gly Ser
 20 25 30

Ala Pro Cys Ile Leu Cys Ser Cys Cys Pro Ala Ser Arg Xaa Ser Thr
 35 40 45

Val Ser Arg Leu Ile Phe Thr Phe Phe Leu
 50 55

<210> 125
 <211> 468
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 125

Pro	Gly	Ala	Gly	Arg	Pro	Lys	Pro	Gly	Ala	Ala	Ala	Met	Gly	Ala	Cys	1	5	10	15
Leu	Gly	Ala	Cys	Ser	Leu	Leu	Ser	Cys	Ala	Ser	Cys	Leu	Cys	Gly	Ser	20	25	30	
Ala	Pro	Cys	Ile	Leu	Cys	Ser	Cys	Cys	Pro	Ala	Ser	Arg	Xaa	Ser	Thr	35	40	45	
Val	Ser	Arg	Leu	Ile	Phe	Thr	Phe	Phe	Leu	Phe	Leu	Gly	Val	Leu	Val	50	55	60	
Ser	Ile	Ile	Met	Leu	Ser	Pro	Gly	Val	Glu	Ser	Gln	Leu	Tyr	Lys	Leu	65	70	75	80
Pro	Trp	Val	Cys	Glu	Glu	Gly	Ala	Gly	Ile	Pro	Thr	Val	Leu	Gln	Gly	85	90	95	
His	Ile	Asp	Cys	Gly	Ser	Leu	Leu	Gly	Tyr	Arg	Ala	Val	Tyr	Arg	Met	100	105	110	
Cys	Phe	Ala	Thr	Ala	Ala	Phe	Phe	Phe	Phe	Phe	Thr	Leu	Leu	Met	Leu	115	120	125	
Cys	Val	Ser	Ser	Ser	Arg	Asp	Pro	Arg	Ala	Ala	Ile	Gln	Asn	Gly	Phe	130	135	140	
Trp	Phe	Phe	Lys	Phe	Leu	Ile	Leu	Val	Gly	Xaa	Thr	Val	Gly	Ala	Phe	145	150	155	160
Tyr	Ile	Pro	Asp	Gly	Ser	Phe	Thr	Asn	Ile	Trp	Phe	Tyr	Phe	Gly	Val	165	170	175	
Val	Gly	Ser	Phe	Leu	Phe	Ile	Leu	Ile	Gln	Leu	Val	Leu	Leu	Ile	Asp	180	185	190	
Phe	Ala	His	Ser	Trp	Asn	Gln	Arg	Trp	Leu	Gly	Lys	Ala	Glu	Glu	Cys	195	200	205	
Asp	Ser	Arg	Ala	Trp	Tyr	Ala	Gly	Leu	Phe	Phe	Phe	Thr	Leu	Leu	Phe	210	215	220	
Tyr	Leu	Leu	Ser	Ile	Ala	Ala	Val	Ala	Leu	Met	Phe	Met	Tyr	Tyr	Thr	225	230	235	240
Glu	Pro	Ser	Gly	Cys	His	Glu	Gly	Lys	Val	Phe	Ile	Ser	Leu	Asn	Leu	245	250	255	
Thr	Phe	Cys	Val	Cys	Val	Ser	Ile	Ala	Ala	Val	Leu	Pro	Lys	Val	Gln	260	265	270	
Asp	Ala	Gln	Pro	Asn	Ser	Gly	Leu	Leu	Gln	Ala	Ser	Val	Ile	Thr	Leu	275	280	285	
Tyr	Thr	Met	Phe	Val	Thr	Trp	Ser	Ala	Leu	Ser	Ser	Ile	Pro	Glu	Gln	290	295	300	

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Arg Asp Phe Ser
465

Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg
35 40

Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile

20 25 30
 Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg Met Gly Pro Ser
 35 40 45
 Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln Leu Ile Asn Leu
 50 55 60
 Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp Lys Lys Ile Lys
 65 70 75 80
 Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro Ile Ser Lys Lys
 85 90 95
 Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro Ser Ser Cys Pro
 100 105 110
 Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr Gly Cys Gly Ser
 115 120 125
 Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln Cys Ser Val Val
 130 135 140
 Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr
 145 150 155

 <210> 128
 <211> 41
 <212> PRT
 <213> Homo sapiens

 <400> 128
 Ser Val Ser Thr Thr Arg Ser Phe Ser Val Asp Ser Ser Ala Lys Thr
 1 5 10 15
 Ala Ala Met Pro Val Thr Val Thr Arg Thr Thr Ile Thr Thr Thr
 20 25 30
 Thr Ser Ser Ser Gly Leu Gly Ser Pro
 35 40

<210> 129
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 129
 Ser Thr Cys Val Ala Phe Ser Leu Val Ala Ser Val Gly Ala Trp Thr
 1 5 10 15

Gly

<210> 130
 <211> 8
 <212> PRT
 <213> Homo sapiens

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Met Phe Thr Trp Cys Phe Cys Phe
1 5

<213> Homo sapiens

Ile Leu Ile Val Glu Leu
1 5

<213> Homo sapiens

Phe Pro Leu Ser Trp Arg Asn Phe Pro Ile Thr Phe Ala Cys Tyr Ala
1 5 10 15

Ala Leu Phe Cys Leu Ser
20

<213> Homo sapiens

Ser Ile Ile Tyr Pro Thr Thr Tyr Val Gln Phe Leu
1 5 10

<213> Homo sapiens

Arg Asp His Ala Ile Ala Ala Thr
1 5

<213> Homo sapiens

Ala Tyr Ala Thr Glu Val Ala Trp Thr Arg Ala Arg Pro Gly Glu Ile
1 5 10 15

Thr Gly Tyr Met Ala Thr Val Pro Gly Leu Leu Lys Val
20 25

Val Glu Ile Glu Phe Cys Val Trp Asp Gln Phe Leu Gly Glu Ile Asn

130	135	140
Pro Gln His Ser Trp Met Val Ala Gly Pro Leu Leu Asp Ile Lys Ala 145 150 155 160		
Glu Pro Gly Ala Val Glu Ala Val His Leu Pro His Phe Val Ala Leu 165 170 175		
Gln Gly Gly His Val Asp Thr Ser Leu Phe Gln Val Ala His Phe Lys 180 185 190		
Glu Glu Gly Met Leu Leu Glu Lys Pro Ala Arg Val Glu Leu His His 195 200 205		
Ile Val Leu Glu Asn Pro Ser Phe Ser Pro Leu Gly Val Leu Leu Lys 210 215 220		
Met Ile His Asn Ala Leu Arg Phe Ile Pro Val Thr Ser Val Val Leu 225 230 235 240		
Leu Tyr His Arg Val His Pro Glu Glu Val Thr Phe His Leu Tyr Leu 245 250 255		
Ile Pro Ser Asp Cys Ser Ile Arg Lys Glu Leu Glu Leu Cys Tyr Arg 260 265 270		
Ser Pro Gly Glu Asp Gln Leu Phe Ser Glu Phe Tyr Val Gly His Leu 275 280 285		
Gly Ser Gly Ile Arg Leu Gln Val Lys Asp Lys Lys Asp Glu Thr Leu 290 295 300		
Val Trp Glu Ala Leu Val Lys Pro Gly Asp Leu Met Pro Ala Thr Thr 305 310 315 320		
Leu Ile Pro Pro Ala Arg Ile Ser Val Pro Ser Pro Leu Asp Ala Pro 325 330 335		
Gln Leu Leu His Phe Val Asp Gln Tyr Arg Glu Gln Leu Ile Ala Arg 340 345 350		
Val Thr Ser Val Glu Val Val Leu Asp Lys Leu His Gly Gln Val Leu 355 360 365		
Ser Gln Glu Gln Tyr Glu Arg Val Leu Ala Glu Asn Thr Arg Pro Ser 370 375 380		
Gln Met Arg Lys Leu Phe Ser Leu Ser Gln Ser Trp Asp Arg Lys Cys 385 390 395 400		
Lys Asp Gly Leu Tyr Gln Ala Leu Lys Glu Thr His Pro His Ser Leu 405 410 415		
Trp Asn Ser Gly Arg Arg Ala Ala Lys Arg Asp Ser Cys His Ser Ala 420 425 430		
Ala Glu Val Ser Thr Leu Ala Leu Asp Pro 435 440		

<210> 140

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<211> 64
<212> PRT
<213> Homo sapiens
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<210> 141
<211> 61
<212> PRT
<213> Homo sapiens

<400> 141
Ser Pro Ala Ser Gln Gly Asp Leu His Thr Lys Pro Leu Gly Thr Asp
 1              5              10              15
Asp Asp Phe Trp Gly Pro Thr Gly Pro Val Ala Thr Glu Val Val Asp
      20              25              30
Lys Glu Lys Asn Leu Tyr Arg Val His Phe Pro Val Ala Gly Ser Tyr
      35              40              45
Arg Trp Pro Asn Thr Gly Leu Cys Phe Val Met Arg Glu
      50              55              60

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<210> 142
<211> 63
<212> PRT
<213> Homo sapiens

<400> 142
Ala Val Thr Val Glu Ile Glu Phe Cys Val Trp Asp Gln Phe Leu Gly
 1             5             10             15
Glu Ile Asn Pro Gln His Ser Trp Met Val Ala Gly Pro Leu Leu Asp
      20             25             30
Ile Lys Ala Glu Pro Gly Ala Val Glu Ala Val His Leu Pro His Phe
      35             40             45
Val Ala Leu Gln Gly Gly His Val Asp Thr Ser Leu Phe Gln Val
      50             55             60

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<210> 143
<211> 65

<212> PRT
 <213> Homo sapiens

<400> 143
 Ala His Phe Lys Glu Glu Gly Met Leu Leu Glu Lys Pro Ala Arg Val
 1 5 10 15
 Glu Leu His His Ile Val Leu Glu Asn Pro Ser Phe Ser Pro Leu Gly
 20 25 30
 Val Leu Leu Lys Met Ile His Asn Ala Leu Arg Phe Ile Pro Val Thr
 35 40 45
 Ser Val Val Leu Leu Tyr His Arg Val His Pro Glu Glu Val Thr Phe
 50 55 60
 His
 65

<210> 144
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 144
 Leu Tyr Leu Ile Pro Ser Asp Cys Ser Ile Arg Lys Glu Leu Glu Leu
 1 5 10 15
 Cys Tyr Arg Ser Pro Gly Glu Asp Gln Leu Phe Ser Glu Phe Tyr Val
 20 25 30
 Gly His Leu Gly Ser Gly Ile Arg Leu Gln Val Lys Asp Lys Lys Asp
 35 40 45
 Glu Thr Leu Val Trp Glu Ala Leu Val Lys Pro Gly Asp Leu Met Pro
 50 55 60
 Ala
 65

<210> 145
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 145
 Thr Thr Leu Ile Pro Pro Ala Arg Ile Ser Val Pro Ser Pro Leu Asp
 1 5 10 15
 Ala Pro Gln Leu Leu His Phe Val Asp Gln Tyr Arg Glu Gln Leu Ile
 20 25 30
 Ala Arg Val Thr Ser Val Glu Val Val Leu Asp Lys Leu His Gly Gln
 35 40 45
 Val Leu Ser Gln Glu Gln Tyr Glu Arg Val Leu Ala Glu Asn Thr Arg
 50 55 60
 Pro

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65

<210> 146
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 146
 Ser Gln Met Arg Lys Leu Phe Ser Leu Ser Gln Ser Trp Asp Arg Lys
 1 5 10 15
 Cys Lys Asp Gly Leu Tyr Gln Ala Leu Lys Glu Thr His Pro His Ser
 20 25 30
 Leu Trp Asn Ser Gly Arg Arg Ala Ala Lys Arg Asp Ser Cys His Ser
 35 40 45
 Ala Ala Glu Val Ser Thr Leu Ala Leu Asp Pro
 50 55

<210> 147
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 147
 Ser Glu Gln Leu Pro Thr Ile Ala Gln Ile His Pro Ala Glu Ala Met
 1 5 10 15
 Phe Leu

<210> 148
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 148
 Tyr Ser Ser Pro Ala Cys Gln His Asp Gln Ala Pro Leu Leu Pro Leu
 1 5 10 15
 Asp Val Thr Asp
 20

<210> 149
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 149
 Ala Pro His Arg Ser Gly Ala Ala His Ser Ser Ala Arg Cys Gly Leu
 1 5 10 15
 Ser Ala Ala Glu Arg Pro Arg Gln Phe Arg Thr Lys Arg Cys Gly Gln
 20 25 30
 Ala Thr Gly Pro Ala Gly Asn Ile Met Ala Glu Lys Val Asn Asn Phe

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Pro Ala Cys Gln His Asp Gln Ala Pro Leu Leu Pro Leu Asp Val Thr

35 40 45
 Asp Ser Ser Phe Ser Phe Met Ala Phe Phe Phe Thr Phe Met Ala Gln
 50 55 60
 Leu Val Ile Ser Ile Ile Gln Ala Val Gly Ile Pro Gly Trp Gly Val
 65 70 75 80
 Cys Gly Trp Ile Ala Thr Ile Ser Phe Phe Gly Thr Asn Ile Gly Ser
 85 90 95
 Ala Val Val Met Leu Ile Pro Thr Val Met Phe Thr Val Met Ala Val
 100 105 110
 Phe Ser Phe Ile Ala Leu Ser Met Val His Lys Phe Tyr Arg Gly Ser
 115 120 125
 Gly Gly Ser Phe Ser Lys Ala Gln Glu Glu Trp Thr Thr Gly Ala Trp
 130 135 140
 Lys Asn Pro His Val Gln Gln Ala Ala Gln Asn Ala Ala Met Gly Ala
 145 150 155 160
 Ala Gln Gly Ala Met Asn Gln Pro Gln Thr Gln Tyr Ser Ala Thr Pro
 165 170 175
 Asn Tyr Thr Tyr Ser Asn Glu Met
 180

<210> 154
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 154
 Ala Arg Glu Ser Ser Asn
 1 5

<210> 155
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 155
 Arg Asn Cys Thr Lys Ser Leu Asp His Pro Thr Ser Ala Cys Trp Leu
 1 5 10 15

Phe Pro Asp Asn Gln Phe Gly Glu Ser Glu Pro Arg Pro Ser Lys Glu
 20 25 30

Val Glu Ser Phe Ala Arg Lys Asn Tyr Gly Val Thr Phe Pro Ile Phe
 35 40 45

His Lys Ile Lys Ile Leu Gly Ser Glu Gly Glu Pro Ala Phe Arg Phe
 50 55 60

Leu Val Asp Ser Ser Lys Lys Glu Pro Arg Trp Asn Phe Trp Lys Tyr
 65 70 75 80

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Asn Gln Tyr Pro Glu Ser Asn Ala Glu Tyr Leu Ala His Leu Val Pro
20 25 30

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<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (225)
<223> Xaa equals any of the naturally occurring L-amino acids.

<220>
<221> SITE
<222> (235)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 162
Val Leu Asn Gly Lys Ile Leu Val Asp Ile Ser Asn Asn Leu Lys Ile
  1             5             10             15

Asn Gln Tyr Pro Glu Ser Asn Ala Glu Tyr Leu Ala His Leu Val Pro
      20             25             30

Gly Ala His Val Val Lys Ala Phe Asn Thr Ile Ser Ala Trp Ala Leu
      35             40             45

Gln Ser Gly Ala Leu Asp Ala Ser Arg Gln Val Phe Val Cys Gly Asn
      50             55             60

Asp Ser Lys Ala Lys Gln Arg Val Met Asp Ile Val Arg Asn Leu Gly
      65             70             75             80

Leu Thr Pro Met Asp Gln Gly Ser Leu Met Ala Ala Lys Glu Ile Glu
      85             90             95

Lys Tyr Pro Leu Gln Leu Phe Pro Met Trp Arg Phe Pro Phe Tyr Leu
      100            105            110

Ser Ala Val Leu Cys Val Phe Leu Phe Phe Tyr Cys Val Ile Arg Asp
      115            120            125

Val Ile Tyr Pro Tyr Val Tyr Glu Lys Lys Asp Asn Thr Phe Arg Met
      130            135            140

Ala Ile Ser Ile Pro Asn Arg Ile Phe Pro Ile Thr Ala Leu Thr Leu
      145            150            155            160

Leu Ala Leu Val Tyr Ser Leu Val Leu Leu Leu Pro Phe Tyr Asn Cys
      165            170            175

Thr Glu Xaa Thr Lys Tyr Arg Arg Phe Pro Asp Trp Leu Asp His Trp
      180            185            190

Met Leu Cys Arg Lys Gln Leu Gly Leu Val Ala Leu Gly Phe Ala Phe
      195            200            205

Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val Arg
      210            215            220

Xaa Arg Leu Gly Asn Leu Thr Val Thr Gln Xaa Ile Leu Lys Lys Glu
      225            230            235            240

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<213> Homo sapiens

<400> 165

Thr Thr Cys Tyr Leu Asn Thr Tyr Met Phe Asn Ile Asn Thr Tyr Ile
 1 5 10 15

Lys Phe Thr Cys Ile Leu Asn Thr Tyr Val Lys Tyr Ile Gln Cys Ile
 20 25 30

Tyr Ile Cys Thr Gln Tyr
 35

<210> 166

<211> 24

<212> PRT

<213> Homo sapiens

<400> 166

Cys Arg Asn Ser Ala Arg Ala Pro Ile Lys Asn Leu Asn Pro Leu Pro
 1 5 10 15

Thr Gln Lys His Cys Val Phe Leu
 20

<210> 167

<211> 17

<212> PRT

<213> Homo sapiens

<400> 167

Thr Arg Pro Lys Lys Glu Ala Gly Arg Ile Ser Thr Val Glu Leu Gln
 1 5 10 15

Lys

<210> 168

<211> 13

<212> PRT

<213> Homo sapiens

<400> 168

His Glu Arg Arg His Glu Ala Ala Gly Pro Ala Ala Pro
 1 5 10

<210> 169

<211> 153

<212> PRT

<213> Homo sapiens

<400> 169

Met Val Pro Asn Gln Arg Pro Glu Pro Cys Ala Leu Pro His Ser Ser
 1 5 10 15

Lys Leu Pro Lys Ser Lys Pro Pro His Asp His Thr Ser Cys Gly His
 20 25 30

Ser Leu Cys Pro Cys Ala Ser Arg Thr Glu Ala Pro Gly Arg Pro Trp

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Glu Trp Asn Pro His Ala Gly His Leu
20 25

<210> 173
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 173
 Ala Pro Ser Thr Leu Gln His Pro Ile Leu Leu Gln Arg Gly Gln Cys
 1 5 10 15

Leu Pro Arg Ser Ser Ser Asp Leu
 20

<210> 174
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 174
 Ser Val His Ala Val Leu Ala Thr Gly Ser Gly
 1 5 10

<210> 175
 <211> 246
 <212> PRT
 <213> Homo sapiens

<400> 175
 Thr Arg Pro Val Ser Cys Leu Thr Ala Gly Val Leu Asn Pro Glu Leu
 1 5 10 15

Gly Tyr Asp Ala Leu Leu Val Gly Thr Gln Thr Asn Leu Leu Ala Tyr
 20 25 30

Asp Val Tyr Asn Asn Ser Asp Leu Phe Tyr Arg Glu Val Ala Asp Gly
 35 40 45

Ala Asn Ala Ile Val Leu Gly Thr Leu Gly Asp Ile Ser Ser Pro Leu
 50 55 60

Ala Ile Ile Gly Gly Asn Cys Ala Leu Gln Gly Phe Asn His Glu Gly
 65 70 75 80

Ser Asp Leu Phe Trp Thr Val Thr Gly Asp Asn Val Asn Ser Leu Ala
 85 90 95

Leu Cys Asp Phe Asp Gly Asp Gly Lys Lys Glu Leu Leu Val Gly Ser
 100 105 110

Glu Asp Phe Asp Ile Arg Val Phe Lys Glu Asp Glu Ile Val Ala Glu
 115 120 125

Met Thr Glu Thr Glu Ile Val Thr Ser Leu Cys Pro Met Tyr Gly Ser
 130 135 140

Arg Phe Gly Tyr Ala Leu Ser Asn Gly Thr Val Gly Val Tyr Asp Lys
 145 150 155 160

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Thr Ser Arg Tyr Trp Arg Ile Lys Ser Lys Asn His Ala Met Ser Ile
165 170 175

His Val Phe Asp Leu Asn Ser Asp Gly Val Asn Glu Leu Ile Thr Gly
180 185 190

Trp Ser Asn Gly Lys Val Asp Ala Arg Ser Asp Arg Thr Gly Glu Val
195 200 205

Ile Phe Lys Asp Asn Phe Ser Ser Ala Ile Ala Gly Val Val Glu Gly
210 215 220

Asp Tyr Arg Met Asp Gly His Ile Gln Leu Ile Cys Cys Ser Val Asp
225 230 235 240

Gly Glu Ser Lys Leu Gly
245

<210> 176

<211> 52

<212> PRT

<213> Homo sapiens

<400> 176

Thr Arg Pro Val Ser Cys Leu Thr Ala Gly Val Leu Asn Pro Glu Leu
1 5 10 15

Gly Tyr Asp Ala Leu Leu Val Gly Thr Gln Thr Asn Leu Leu Ala Tyr
20 25 30

Asp Val Tyr Asn Asn Ser Asp Leu Phe Tyr Arg Glu Val Ala Asp Gly
35 40 45

Ala Asn Ala Ile
50

<210> 177

<211> 53

<212> PRT

<213> Homo sapiens

<400> 177

Val Leu Gly Thr Leu Gly Asp Ile Ser Ser Pro Leu Ala Ile Ile Gly
1 5 10 15

Gly Asn Cys Ala Leu Gln Gly Phe Asn His Glu Gly Ser Asp Leu Phe
20 25 30

Trp Thr Val Thr Gly Asp Asn Val Asn Ser Leu Ala Leu Cys Asp Phe
35 40 45

Asp Gly Asp Gly Lys
50

<210> 178

<211> 54

<212> PRT

<213> Homo sapiens

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Asp Pro Ala Gly Gln Val Gly Thr Ala Arg Ser Gly Cys Gly Arg Cys
20 25 30

Arg Ala Gly Leu Gly Pro Pro Glu Pro Pro Ala Ser Ser Pro Pro Ser
35 40 45

Val Gly Arg Met Cys Ala Arg
50 55

<210> 182

<211> 287

<212> PRT

<213> Homo sapiens

<400> 182

Thr Thr Ser Pro Ser Trp Ala Thr Ser Leu Leu Arg Gly Cys Gln Ala
1 5 10 15

Lys Gly Pro Thr Lys Ser Arg Leu Met Ser Ser Arg Gly Thr Glu Leu
20 25 30

Arg Thr Ala Ser Val Lys Leu Ala Lys Gly Ser Thr Ser Arg Glu Val
35 40 45

Pro Arg Met Ser Ser Arg Ser Ala Met Gly Lys Ser Thr Thr Cys Ser
50 55 60

Lys Asn Leu Trp Gly Ser Gly Ser Gln Arg Thr Gln Cys Arg Ala Ser
65 70 75 80

Gln Arg Arg Cys Arg Pro Gly Ser Gly Glu Pro Cys Leu Pro Ser Arg
85 90 95

Gln Pro Glu Cys Pro Pro Leu Gly Arg Val Phe Gly Arg Leu Cys Arg
100 105 110

Trp Gln Arg Gln Arg Phe His Glu Leu Gln Pro Ala Leu Arg Gln Gly
115 120 125

Cys Pro Thr Leu Lys Phe Lys Pro Lys Arg Ser Val Ala Ala Ala Ser
130 135 140

Glu Met Ser Thr Gln Gly Gln Glu His Asn Phe Trp Ala Trp Gln Asp
145 150 155 160

Ser Ser Leu Lys Pro Ile Asp Val Leu Arg Val Glu Pro Gln Lys Gln
165 170 175

Pro Leu Val Met Lys Gln Pro Glu Lys Val Val Ser Asp Val Gly Leu
180 185 190

Val Val Ser Arg Val Gln Leu Leu Gly Gln Ser Glu Lys Gly Leu Gly
195 200 205

Val Val Lys Glu Glu Trp Glu Phe Lys Asn Gly Leu Gly Val Arg Glu
210 215 220

Ile Val Leu Leu Glu Val Ala Val Gln Ala Thr Pro Arg Arg Ser Glu
225 230 235 240

Val Trp Asn Ala Thr Gly Cys Ala Asp Ala Gly Pro His His Asp His
245 250 255

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<210> 187

<400> 189																
Asp	Trp	Leu	Leu	Ser	Val	Ser	Phe	Ala	Ala	Val	Phe	Phe	Ser	Val	Ser	
1				5					10					15		
Ile	Lys	Gly	Gly	Arg	Arg	Ser	Ile	Ser	Phe	Ser	Val	Gly	Ala	Ser	Ser	
			20					25					30			
Val	Val	Gly	Ser	Gly	Gly	Ser	Ser	Asp	Lys	Gly	Lys	Leu	Ser	Leu	Gln	
		35					40					45				
Asp	Val	Ala	Glu	Leu	Ile	Arg	Ala	Arg	Ala	Cys	Gln	Arg	Val	Val	Val	
	50					55					60					
Met	Val	Gly	Ala	Gly	Ile	Ser	Thr	Pro	Ser	Gly	Ile	Pro	Asp	Phe	Arg	
65					70					75					80	
Ser	Pro	Gly	Ser	Gly	Leu	Tyr	Ser	Asn	Leu	Gln	Gln	Tyr	Asp	Leu	Pro	
				85					90					95		
Tyr	Pro	Glu	Ala	Ile	Phe	Glu	Leu	Pro	Phe	Phe	Phe	His	Asn	Pro	Lys	
			100					105					110			
Pro	Phe	Phe	Thr	Leu	Ala	Lys	Glu	Leu	Tyr	Pro	Gly	Asn	Tyr	Lys	Pro	
		115					120					125				
Asn	Val	Thr	His	Tyr	Phe	Leu	Arg	Leu	Leu	His	Asp	Lys	Gly	Leu	Leu	
	130					135					140					
Leu	Arg	Leu	Tyr	Thr	Gln	Asn	Ile	Asp	Gly	Leu	Glu	Arg	Gly	Val	Leu	
145					150					155					160	

Leu Tyr Pro Gly Asn Tyr Lys Pro Asn Val Thr His Tyr Phe Leu Arg
1 5 10 15

Glu Pro Leu Pro Gln Arg Phe Leu

20

<210> 197

<211> 25

<212> PRT

<213> Homo sapiens

<400> 197

Val Val Asp Phe Pro Met Ala Asp Leu Leu Leu Ile Leu Gly Thr Ser
 1 5 10 15

Leu Glu Val Glu Pro Phe Ala Ser Leu
 20 25

<210> 198

<211> 22

<212> PRT

<213> Homo sapiens

<400> 198

Leu Val Gly Pro Leu Ala Trp His Pro Arg Ser Arg Asp Val Ala Gln
 1 5 10 15

Leu Gly Asp Val Val His
 20

<210> 199

<211> 23

<212> PRT

<213> Homo sapiens

<400> 199

Val Glu Ser Leu Val Glu Leu Leu Gly Trp Thr Glu Glu Met Arg Asp
 1 5 10 15

Leu Val Gln Arg Glu Thr Gly
 20

<210> 200

<211> 96

<212> PRT

<213> Homo sapiens

<400> 200

Ile Ser Val Ser Gly Ile Pro Ala Ser Lys Leu Val Glu Ala His Gly
 1 5 10 15

Thr Phe Ala Ser Ala Thr Cys Thr Val Cys Gln Arg Pro Phe Pro Gly
 20 25 30

Glu Asp Ile Arg Ala Asp Val Met Ala Asp Arg Val Pro Arg Cys Pro
 35 40 45

Val Cys Thr Gly Val Val Lys Pro Asp Ile Val Phe Phe Gly Ser Arg
 50 55 60

Cys Pro Arg Gly Ser Cys Cys Met Trp Leu Ile Ser Pro Trp Gln Ile

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Pro Ile Cys Pro Tyr Ile Gly Val Cys Val Tyr Tyr Val Cys Thr Leu
85 90 95

<400> 206

Leu Pro Val Gln Val Gly Trp Ser Leu Cys Asn Thr Asp Gly Pro Lys
 1 5 10 15

Leu Leu Cys Gly Arg Gln Gly Leu Met Leu Leu Thr Gly His His Cys
 20 25 30

Gln Ala Ser Lys His Lys Ser Gln Gly Leu
 35 40

<210> 207

<211> 140

<212> PRT

<213> Homo sapiens

<400> 207

Ala Ser Leu Ile Phe Ser Ser Pro Leu Ser Pro Leu Leu Thr Ser Pro
 1 5 10 15

Ser Ser Ser Ile Cys Ser Val Arg Pro Leu Gly Ile Val Met Ile Thr
 20 25 30

Cys Phe His Ser Arg Cys His Leu Lys Gln Arg Pro Ala Ser Pro Asn
 35 40 45

Gly Val Phe Gln Gln Arg Ala Ala His Leu Ser Pro Thr Ala Ala Leu
 50 55 60

His Val Ala Gln Gly Glu Ser Leu Ser Thr Asp Val Glu Cys Arg Val
 65 70 75 80

Pro Gly Leu Met Leu Thr Leu Leu Leu Ala Val His Gln Gln Ile Leu
 85 90 95

Val Gly Leu Pro Val Gln Val Gly Trp Ser Leu Cys Asn Thr Asp Gly
 100 105 110

Pro Lys Leu Leu Cys Gly Arg Gln Gly Leu Met Leu Leu Thr Gly His
 115 120 125

His Cys Gln Ala Ser Lys His Lys Ser Gln Gly Leu
 130 135 140

<210> 208

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 208

Val Glu Ala Glu Trp Leu Gln Asp Val Gly Leu Ser Thr Leu Ile Ser

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<400> 210
Lys Lys Asp Lys Gln Ser Ile Arg Asp Val Arg Asp Ile Phe Gly Val
 1             5             10             15
Ser Glu Ser Pro Pro Arg Asp Thr Cys Gly Asn His Thr Asn Gln Leu
      20             25             30
Asp Gly Thr Lys Glu Glu Arg Glu Leu Pro Arg Val Ile Lys Thr Ser
      35             40             45
Gly Ser Met Pro Asp Asp
 50

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<210> 211
<211> 52
<212> PRT
<213> Homo sapiens

<400> 211
Ala Ser Leu Asn Ser Thr Thr Leu Ser Asp Ala Ser Gln Asp Lys Glu
 1             5             10             15
Gly Ser Phe Ala Val Pro Arg Ser Asp Ser Val Ala Ile Leu Glu Thr
      20             25             30
Ile Pro Val Leu Pro Val His Ser Asn Gly Ser Pro Glu Pro Gly Gln
      35             40             45
Pro Val Gln Asn
      50

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<210> 212
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

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```

<400> 212
Ala Ile Ser Asp Asp Asp Phe Leu Glu Lys Asn Ile Xaa Pro Glu Ala
 1             5             10             15
Glu Glu Leu Ser Phe Glu Val Ser Tyr Ser Glu Met Val Thr Glu Ala
 20             25             30
Leu Lys Arg Asn Lys Leu Lys Lys Ser Glu Ile Lys Lys Glu Asp Tyr

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45

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<210> 213
<211> 32
<212> PRT
<213> Homo sapiens
```

Arg Gln Gly His Leu Leu Arg Ser Gly Thr Thr Tyr Tyr Leu Leu Ala
20 25 30

```
<210> 214
<211> 11
<212> PRT
<213> Homo sapiens
```

<400> 214
Leu Ser Phe Leu Glu Leu Asp Ser Glu Cys Ser
1 5 10

```
<210> 215
<211> 83
<212> PRT
<213> Homo sapiens
```

<400> 215
Trp Trp Ser Leu Glu Thr Arg Met Arg Thr Ala Arg Val Pro Met Arg
1 5 10 15

Pro Ser Trp Thr Arg Thr Pro Ser Phe Ala Arg Ala Leu Lys Phe Ser
20 25 30

Thr Gln Ser Trp Gly Thr Leu Ala Ala Arg Leu Phe Leu Ile Val Thr
35 40 45

Thr Thr Asp Arg Arg Ser Pro Pro Gly Trp Lys Pro Ile Val Lys Phe
50 55 60

Pro Gly Ala Val Asp Gly Ala Thr Tyr Asn Pro Gly Asp Gly Gly Ser
65 70 75 80

Arg Cys Pro

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<210> 216
<211> 20
<212> PRT
<213> Homo sapiens
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[illegible]

<400> 216

Met Arg Thr Ala Arg Val Pro Met Arg Pro Ser Trp Thr Arg Thr Pro
 1 5 10 15

Ser Phe Ala Arg
 20

<210> 217

<211> 21

<212> PRT

<213> Homo sapiens

<400> 217

Pro Gly Trp Lys Pro Ile Val Lys Phe Pro Gly Ala Val Asp Gly Ala
 1 5 10 15

Thr Tyr Asn Pro Gly
 20

<210> 218

<211> 149

<212> PRT

<213> Homo sapiens

<400> 218

Ser Ser Ser Arg Gly Pro Trp Thr Ala Gln Pro Ile Ile Leu Val Met
 1 5 10 15

Val Asp Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg Phe Trp
 20 25 30

Arg His Trp Leu Val Thr Asp Ile Lys Gly Ala Asp Leu Lys Lys Gly
 35 40 45

Lys Ile Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro
 50 55 60

Ala His Ser Gly Phe His Arg Tyr Gln Phe Phe Val Tyr Leu Gln Glu
 65 70 75 80

Gly Lys Val Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg Gly Ser
 85 90 95

Trp Lys Met Asp Arg Phe Leu Asn Arg Phe His Leu Gly Glu Pro Glu
 100 105 110

Ala Ser Thr Gln Phe Met Thr Gln Asn Tyr Gln Asp Ser Pro Thr Leu
 115 120 125

Gln Ala Pro Arg Glu Arg Ala Ser Glu Pro Lys His Lys Asn Gln Ala
 130 135 140

Glu Ile Ala Ala Cys
 145

<210> 219

<211> 24

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<400> 226
Pro Met Glu Pro Gln Lys Cys His Pro Ala Gly Trp His Gly Leu Gly
 1             5             10             15
Gln Glu Ala Glu Ala Gly Asp Gln Asp Gly
      20             25

```


<400> 229
Trp Gly Leu Gly Gly Gly Leu Pro Arg Gly His Pro Pro Leu Leu Gly
1 5 10 15

Trp Gly Leu Gly
20